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use for 2nd NF
rejection

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TITLE: DIGITAL MOBILE RADIO COMMUNICATION SYSTEM

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ABSTRACT:

PROBLEM TO BE SOLVED: To improve transmission quality by using phase fluctuation formation of **two consecutive** pilot **symbols** so as to calculate a **frequency offset** between a transmission carrier and a quasi synchronization detection reference signal of a receiver so as to compensate the offset.

SOLUTION: The number of pilot **symbols** consisting of known data other than a frame symbol inserted in each frame is increased from one to two and the two pilot **symbols** are placed adjacent to each other. That is, one frame consists of N-sets of **symbols** and (N-2)-sets of information **symbols** are in existence before the pilot **symbols**. In a signal to be sent, the information **symbols** are repeated in each frame. Let a phase difference between the adjacent pilot **symbols** be (ρm), then a **frequency offset** Δω is expressed as Δω=Ave(ρm). Thus, the **frequency offset** between a transmission carrier and a reference signal for quasi synchronization detection of a receiver is calculated by using phase fluctuation information of the **two consecutive** pilot **symbols** for compensation.